## Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A memory device comprising:

an array of memory locations implemented as bit-alterable, non-volatile phase change memory configured as a plurality of blocks of memory locations; and

control circuitry coupled with the array of memory locations to cause a segment of data to be stored in the array of memory in logically adjacent memory locations spanning a boundary between a first block of memory locations and a second block of memory locations, wherein the block of data has only one corresponding header, wherein the segment of data comprises system data to be used during system initialization and further wherein the segment of data is stored in a pre-selected location within the memory array for all initialization sequences.

- (Previously Presented) The memory device of claim 1 wherein the control
  circuitry causes a header having an indication of a memory location corresponding to the
  segment of data to be stored within the first block of memory locations.
- (Original) The memory device of claim 1 wherein the bit-alterable, nonvolatile memory includes cells including a thin film chalcogenide alloy material.

 (Original) The memory device of claim 3 wherein the chalcogenide alloy material comprises GeSbTe.

 (Original) The memory device of claim 3 wherein the chalcogenide alloy material is selected from the group consisting of: GaSb, InSb, InSe, Sb<sub>2</sub>Te<sub>3</sub>, GeTe, Ge<sub>2</sub>Sb<sub>2</sub>Te<sub>5</sub>, InSbTe, GaSeTe, SnSb<sub>2</sub>Te<sub>4</sub>, InSbGe, AgInSbTe, (GeSn)SbTe, GeSb(SeTe), and Te<sub>81</sub>Ge<sub>13</sub>Sb<sub>2</sub>S<sub>2</sub>.

## (Canceled)

## 7. (Currently Amended) A method comprising:

receiving data to be stored in a bit-alterable, non-volatile phase change memory configured as a plurality of blocks of memory locations; and

causing the data to be stored as at least one data fragment in logically adjacent memory locations that spans a boundary between a first block of memory locations and a second block of memory locations, wherein the block of data has only one corresponding header, wherein the data fragment comprises system data to be used during system initialization and further wherein the data fragment is stored in a pre-selected location within the memory array for all initialization sequences.

8. (Original) The method of claim 7 further comprising causing a header having an indication of a memory location corresponding to the data fragment to be stored within the first block of memory locations.

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- (Previously Presented) The method of claim 7 wherein the bit-alterable, non-volatile memory includes cells including a thin film chalcogenide alloy material.
- (Previously Presented) The method of claim 9 wherein the chalcogenide alloy material comprises GeSbTe.
- 11. (Previously Presented) The method of claim 9 wherein the chalcogenide alloy material is selected from the group consisting of: GaSb, InSb, InSe, Sb<sub>2</sub>Te<sub>3</sub>, GeTe, Ge<sub>2</sub>Sb<sub>2</sub>Te<sub>5</sub>, InSbTe, GaSeTe, SnSb<sub>2</sub>Te<sub>4</sub>, InSbGe, AgInSbTe, (GeSn)SbTe, GeSb(SeTe), and Te<sub>81</sub>Ge<sub>11</sub>Sb<sub>2</sub>S<sub>2</sub>.
- (Currently Amended) An article comprising a non-volatile memory storing instructions that, when executed, cause one or more processors to:

receive data to be stored in a bit-alterable, non-volatile phase change memory configured as a plurality of blocks of memory locations; and

cause the data to be stored as at least one data fragment in logically adjacent memory locations that spans a boundary between a first block of memory locations and a second block of memory locations, wherein the block of data has only one corresponding header, wherein the data fragment comprises system data to be used during system initialization and further wherein the data fragment is stored in a pre-selected location within the memory array for all initialization sequences.

- 13. (Original) The article of claim 12 further comprising instructions that, when executed, cause the one or more processors to cause a header having an indication of a memory location corresponding to the data fragment to be stored within the first block of memory locations.
- (Previously Presented) The article of claim 12 wherein the bit-alterable, non-volatile memory includes cells including a thin film chalcogenide alloy material.
- (Previously Presented) The article of claim 14 wherein the chalcogenide alloy material comprises GeSbTe.
- 16. (Previously Presented) The article of claim 14 wherein the chalcogenide alloy material is selected from the group consisting of: GaSb, InSb, InSe, Sb<sub>2</sub>Te<sub>3</sub>, GeTe, Ge<sub>2</sub>Sb<sub>2</sub>Te<sub>5</sub>, InSbTe, GaSeTe, SnSb<sub>2</sub>Te<sub>4</sub>, InSbGe, AgInSbTe, (GeSn)SbTe, GeSb(SeTe), and Te<sub>81</sub>Ge<sub>15</sub>Sb<sub>2</sub>S<sub>2</sub>.

17-24. (Canceled)

(Currently Amended) A system comprising:

an antenna;

a memory system coupled with the antenna, the memory system having an array of memory locations implemented as bit-alterable, non-volatile phase change memory configured as a plurality of blocks of memory locations and control circuitry coupled

with the array of memory locations to cause a segment of data to be stored in the array of memory in logically adjacent memory locations spanning a boundary between a first block of memory locations and a second block of memory locations, wherein the segment of data has only one corresponding header, wherein the segment of data comprises system data to be used during system initialization and further wherein the segment of data is stored in a pre-selected location within the memory array for all initialization sequences.

- 26. (Previously Presented) The system of claim 25 wherein the control circuitry causes a header having an indication of a memory location corresponding to the segment of data to be stored within the first block of memory locations.
- (Original) The system of claim 25 wherein the bit-alterable, non-volatile memory includes cells including a thin film chalcogenide alloy material.
- (Original) The system of claim 27 wherein the chalcogenide alloy material comprises GeSbTe.
- 29. (Original) The system of claim 27 wherein the chalcogenide alloy material is selected from the group consisting of: GaSb, InSb, InSe, Sb<sub>2</sub>Te<sub>3</sub>, GeTe, Ge<sub>2</sub>Sb<sub>2</sub>Te<sub>5</sub>, InSbTe, GaSeTe, SnSb<sub>2</sub>Te<sub>4</sub>, InSbGe, AgInSbTe, (GeSn)SbTe, GeSb(SeTe), and Te<sub>81</sub>Ge<sub>18</sub>Sb<sub>2</sub>S<sub>2</sub>.